

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

ORDER NO. R5-2010-XXXX

AMENDING WASTE DISCHARGE REQUIREMENTS
ORDER NO. R5-2005-0144 (NPDES PERMIT NO. CA0084255)

LINCOLN CENTER ENVIRONMENTAL REMEDIATION TRUST
GROUNDWATER TREATMENT SYSTEM
SAN JOAQUIN COUNTY

The California Regional Water Quality Control Board, Central Valley Region, (hereafter Central Valley Water Board) finds that:

1. On 21 October 2005, the Central Valley Water Board adopted Waste Discharge Requirements Order R5-2005-0144, prescribing waste discharge requirements for the Lincoln Center Environmental Remediation Trust Groundwater Treatment System, San Joaquin County. For the purposes of this Order, the Lincoln Center Environmental Remediation Trust is hereafter referred to as "Discharger" and the Groundwater Treatment System is hereafter referred to as "GWTS."
2. The Discharger operates the GWTS as part of a remedial action to clean groundwater polluted with volatile organic compounds (VOCs), including perchloroethene (PCE) solvent, considered carcinogenic and thus a threat to public health in groundwater designated for use as drinking water in the vicinity of the Lincoln Center remediation site. Furthermore, reports submitted by the Discharger indicate that the operation of the GWTS provides important hydraulic control of the VOC plume migration. Pumped groundwater is treated by air stripping and granular activated carbon. The treated groundwater is discharged to Fourteen-Mile Slough via the City of Stockton's storm drain system.
3. The Central Valley Water Board adopted Time Schedule Order No. R5-2005-0145 on 21 October 2005, because the Discharger was unable to comply with the final effluent limitations for ammonia, iron, manganese, specific conductance, hexavalent chromium, mercury, arsenic, and barium. The Discharger has performed monitoring studies to confirm the source of the constituents listed under the permit and to determine the ability of the treatment system discharge to meet the final effluent limits. As a result, the Discharger is able to comply with the limits for ammonia, iron, manganese, specific conductance, hexavalent chromium, and mercury. However, the Discharger is unable to consistently comply with the effluent limits in Order R5-2005-0144 for arsenic and barium.
4. The Discharger performed a mixing zone study to determine if there was adequate dilution for compliance with the arsenic and barium water quality objectives. On 17 November 2009, the Discharger submitted the report titled *Revised Fourteen-Mile*

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Slough Dilution/Mixing Zone Study, Lincoln Center, Stockton, California. The study concludes that a mixing zone is appropriate for arsenic and barium. The Central Valley Water Board reviewed the mixing zone study and finds that it meets the requirements of the *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (SIP), USEPA's Water Quality Standards Handbook, and the USEPA's *Technical Support Document for Water Quality Based Toxics Control* (EPA/505/2-90-001) (TSD) for establishment of a mixing zone.

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5. Based on the results of the dilution/mixing zone study, dilution factors of 3.0 and 8.3 for arsenic and barium, respectively, are appropriate. The arsenic and barium mixing zone extends approximately 0.9 miles (approximately 4,800 feet) downstream from the Outfall to the Interstate 5 Overpass. With the allowance of a mixing zone and dilution credits, the maximum daily effluent limits for arsenic and barium are 23 µg/L and 415 µg/L, respectively.
6. Issuance of this Order is exempt from the provisions of the California Environmental Quality Act (Public Resources Code section 21000, et seq.), in accordance with CWC section 15321 (a)(2), Title 14, of the California Code of Regulations.
7. The Central Valley Water Board has notified the Discharger and interested parties of its intent to amend Waste Discharge Requirements and the Monitoring Program Requirements for this discharge and has provided them with an opportunity to submit their written comments and recommendations.
8. Any person adversely affected by this action of the Board may petition the State Water Resources Control Board to review this action. The petition must be received by the State Water Resources Control Board, Office of the Chief Counsel, P.O. Box 100, Sacramento, CA 95812-0100, within 30 days of the date on which this action was taken. Copies of the law and regulations applicable to filing petitions will be provided on request.

IT IS HEREBY ORDERED THAT:

Waste Discharge Requirements Order R5-2005-0144 (NPDES No. CA0079260) is amended as shown in underline/strikeout format in Attachment A to this Order. Underlined text denotes additions and strikeout text represent deletions.

I, PAMELA C. CREEDON, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Valley Region, on **XXX**.

PAMELA C. CREEDON, Executive Officer